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Jameco Part Number
204441

CRYDOM
Control over power

Quad Relay

20Amp • 120/240 Vac • AC Output

- **Zero Voltage and Random Turn-On Switching**
- **Triac Output**
- **Industry Standard Package**
- **Panel Mount**

Four independent AC output relays come in a single standard panel-mount package. Utilizing an AC switch output with internal snubber, relays provide greater protection against false triggering. Model choices include zero-voltage or random turn-on (phase controllable) switching.

Manufactured in Crydom's ISO 9002 Certified facility for optimum product performance and reliability.

MODEL NUMBER	**TD2420Q**
OUTPUT SPECIFICATIONS ①	
Operating Voltage (47-63 Hz) [Vrms]	24-280
Load Current Range ③ [Arms]	.15-20
Transient Overvoltage [Vpk]	600
Max. Surge Current, (16.6ms) [Apk]	250
Max. On-State Voltage Drop @ Rated Current [Vpk]	1.6
Thermal Resistance Junction to Case ($R_{\theta JC}$) [°C/W]	1.2
Maximum I^2t for Fusing, (8.3 msec.) [A^2sec]	260
Max. Off-State Leakage Current @ Rated Voltage [mArms]	10
Min. Off-State dv/dt @ Max. Rated Voltage [V/µsec] ②	200
Max. Turn-On Time ④	1/2 cycle
Max. Turn-Off Time	1/2 cycle
Power Factor (Min.) with Max. Load	0.5
INPUT SPECIFICATIONS ①	
Control Voltage Range	4-15 Vdc
Max. Turn-On Voltage	4.0 Vdc
Min. Turn-Off Voltage	1.0 Vdc
Nominal Input Impedance	330 Ohms
Typical Input Current @ 5 Vdc	12 mA

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GENERAL NOTES

① All parameters at 25ºC and per section unless otherwise specified.
② Off-State dv/dt test method per EIA/NARM standard RS-443, paragraph 13.11.1
③ Heat sinking required, max. 20A per section, **max. 60A per package.**
④ Turn-on time for random turn-on versions is 0.1 msec.

For recommended applications and more information contact:

ISO 9002 CERTIFIED

CRYDOM

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GENERAL SPECIFICATIONS

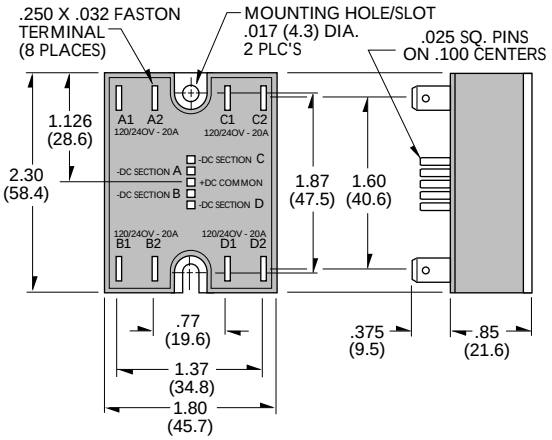
Dielectric Strength 50/60Hz Input/Output/Base	2500 Vrms
Insulation Resistance (Min.) @ 500 Vdc	10^9 Ohm
Max. Capacitance Input/Output	10 pF
Ambient Operating Temperature Range	-40 to 80ºC
Ambient Storage Temperature Range	-40 to 125ºC

MECHANICAL SPECIFICATIONS

Weight: (typical)	3.5 oz. (109g)
Encapsulation:	Thermally Conductive Epoxy
Terminals:	.25" Faston, .025 Square Pins

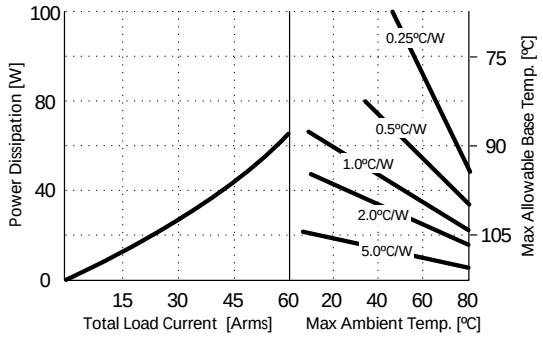
AVAILABLE OPTIONS

-10 Random Turn-On, Phase Controllable
Example: T**D2420Q-10**

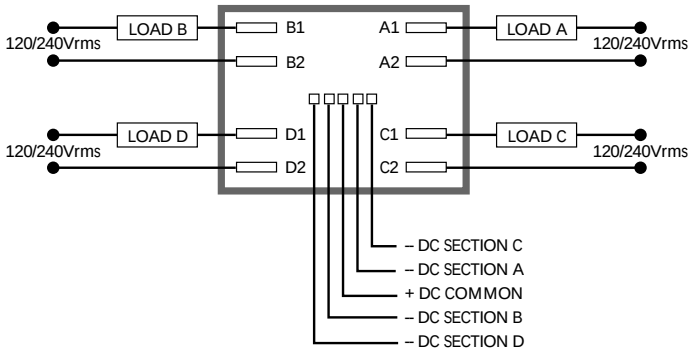


All dimensions are in inches (millimeters)

CURRENT DERATING CURVES



WIRING DIAGRAM



Crydom Heat Sinks offer excellent thermal management and are perfectly matched to the load current ratings of Crydom panel mount relays. Request Crydom's Heat Sink specification sheet for all the details.

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APPROVALS

UL E116949
CSA LR81689
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